PTO/SB/05 (05-03) Approved for use through 04/30/2003. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. PF383D1 Attorney Docket No. UTILITY First Inventor Paul E. Young PATENT APPLICATION Heregulin-like Factor TRANSMITTAL Title (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. MS Patent Application APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents Alexandria, VA 22313-1450 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or Submit an original, and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) Specification 93 X Computer Readable Form (CRF) Х (preferred arrangement set forth below)
- Descriptive title of the invention Specification Sequence Listing on: Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table Statements verifying identity of above copies or a computer program listing appendix Background of the Invention ACCOMPANYING APPLICATIONS PARTS - Brief Summary of the Invention - Brief Description of the Drawings (if filed) Assignment Papers (cover sheet & document(s)) - Detailed Description 37 CFR 3.73(b) Statement Power of Claim(s)
 Abstract of the Disclosure 10. (when there is an assignee) Attorney 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 11. English Translation Document (if applicable) Information Disclosure Copies of IDS 5. Oath or Declaration 12 Х Total Sheets Statement (IDS)/PTO-1449 Citations Preliminary Amendment 13 Newly executed (original or copy) Copy from a prior application (37 CFR 1.63(d)) Return Receipt Postcard (MPEP 503) Х 14. х (for continuation/divisional with Box 18 completed) (Should be specifically itemized) Certified Copy of Priority Document(s) 15. DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). inventor(s) named in the prior application, 16. Applicant must attach form PTO/SB/35 or its equivalent. see 37 CFR 1.63(d)(2) and 1.33(b). 17. Other: Application Data Sheet. See 37 CFR 1.76 [4 Pages Total] Х 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: 09/097,681 1642 K. Canella Prior application information: Examiner For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Correspondence address below Name Address City State Zip Code

Name (Print/Type) Mark J. Hyman Registration No. (Attorney/Agent) 46,789

Signature Date July 1, 2003

Telephone

Country

PTO/SB/17 (05-03)
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CEE TO ANICHITTAL			Complete if Known				
FEE TRANSMITTAL for FY 2003		Application Number Not Yet Assigned					
		Filing Date			Concurrently Herewith		
Effective 01/01/2003, Patent fees are subject to annual revision.		First Named Inventor			ntor Paul E. Young		
Enecuve 01/01/2005, Patern fees and Subject to artifluor fevision.		Examiner Name			Not Yet Assigned		
Applicant claims small entity status. See 37 CFR 1.27			nit		N/A		
TOTAL AMOUNT OF PAYMENT (\$) 1,020.00		_		ket No	p. PF383D1		
			-				
METHOD OF PAYMENT (check all that apply) Credit Money Other Name	FEE CALCULATION (continued)						
Check Card Order Other None X Deposit Account	3. ADDITIONAL FEES						
Deposit	<u>~</u>	Entity -		Entity	-		
Account 08-3425	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description Fee Paid		
Deposit	1051	130	2051	65	Surcharge – late filing fee or oath		
Account Name Human Genome Sciences, Inc.		50	2052	25	Surcharge – late provisional filing fee or cover		
The Director is hereby authorized to: (check all that apply)	1052	50	2032	25	sheet.		
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130	Non-English specification		
X Charge any additional fee(s) during the pendency of this application	-1812	2,520	1812	2,520	For filing a request for ex pane reexamination		
Charge fee(s) indicated below, except for the filling fee	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after		
FEE CALCULATION	1251	110	2251	55	Examiner action Extension for reply within first month		
1. BASIC FILING FEE	1252	410	2252	205	Extension for reply within second month		
Large Entity Small Entity	1253	930	2253	465	Extension for reply within third month		
Fee Fee Fee Fee Fee Description Fee Paid	1254	1,450	2254	725	Extension for reply within fourth month		
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee 750.00	1255	1,970	2255	985	Extension for reply within fifth month		
1002 330 2002 165 Design filing fee	.1401	320	2401	160	Notice of Appeal		
1003 520 2003 260 Plant filing fee	1402	320	2402	160	Filing a brief in support of an appeal		
1004 750 2004 375 Reissue filing fee	1403	280	2403	140	Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 750.00	1452	110	2452	55	Petition to revive – unavoidable		
30B101AL(1) (3) 750.00	1453	1,300	2453	650	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility issue fee (or reissue)		
Extra Fee from Claims below Fee Paid	1502	470	2502	235	Design issue fee		
Total Claims 21 -20** = 1 x 18 00 = 18.00	1503	630	2503	315	Plant issue fee		
Independent 6 -3** = 3 x 84.00 = 252.00	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent =	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Stmt		
Fee Fee Fee Fee Fee Fee Description	8021	40	8021	40	Recording each patent assignment per		
Code (\$) Code (\$)	1809	750	2809	375	property (times number of properties) Filing a submission after final rejection		
1201 84 2201 42 Independent claims in excess of 3					(37 CFR 1.129(a)) For each additional invention to be		
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	examined (37CFR 1.129(b))		
1204 84 2204 42 ** Reissue independent claims over original patent	1801	750	2801	375	Request for Continued Examination (RCE) Request for expedited examination		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent.	1802 Other		1802	900	of a design application		
SUBTOTAL (2) (\$) 270.00	Other fee (specify) *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 0.00						
**or number previously paid, if greater; For Reissues, see above							
SUBMITTED BY Complete (if applicable)							
Name (Print/Type) Mark J. Hyman		tration No ey/Agent		,789	Telephone (240) 314-1224		
Signature VM (praorii	- yarıgerii,	<u> </u>		Date July 1, 2003		